

The logo features the word "Luxona" in a stylized script. The "L" is large and grey, while "uxona" is in a reddish-orange color. To the right of the text is a cluster of diamond shapes in grey and reddish-orange, arranged in a pattern that suggests a paving stone layout.

Luxona

LUXONA

PAVING LIGHTS

Catalogue 2011

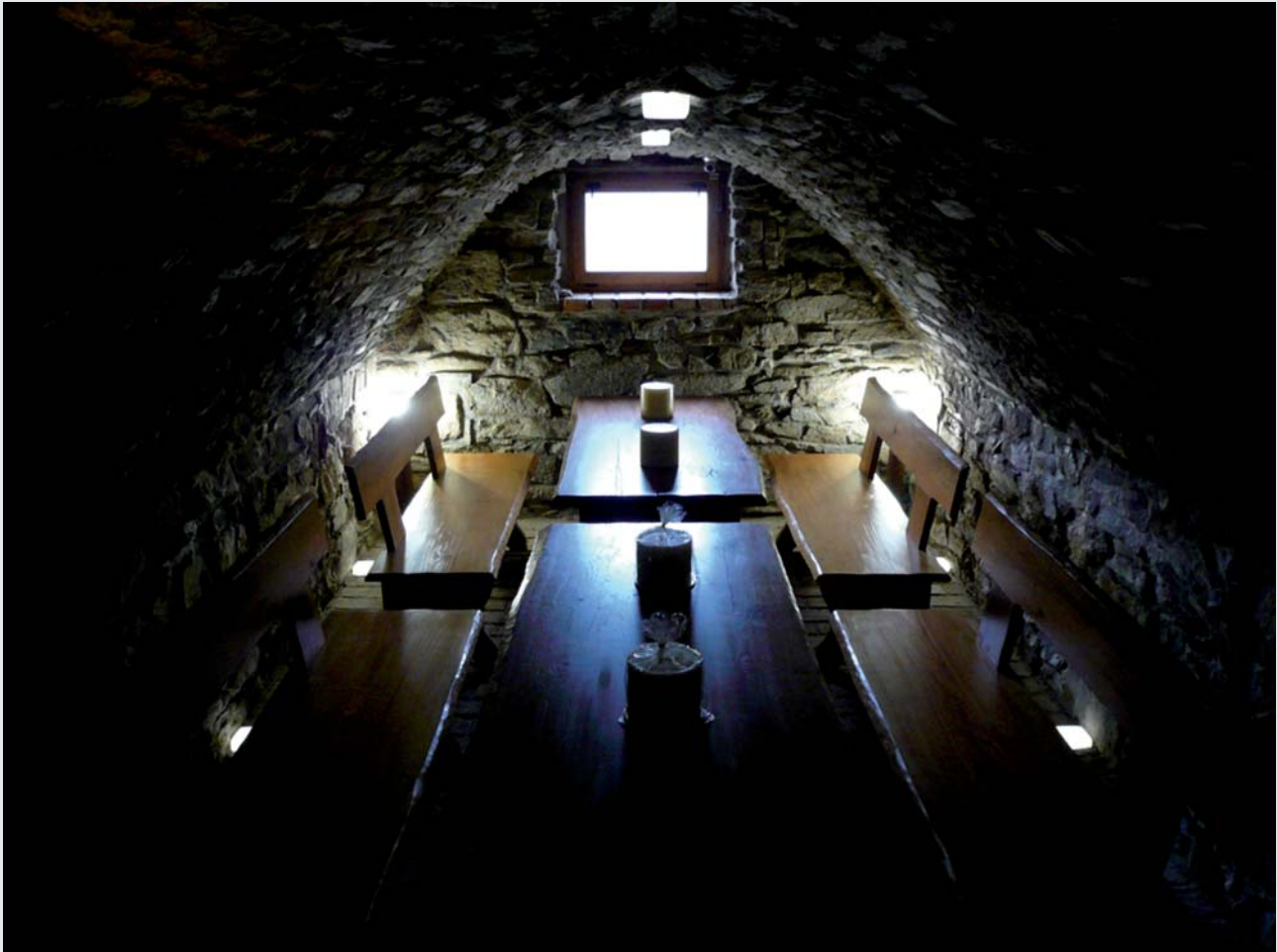


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LUXONA

THE LIGHTING PAVEMENT MANUFACTURE

About the company



Luxona Company is a private enterprise, based in Czech Republic, specializing in design and manufacture of paving lights and glowing stones.



Luxona Company ist ein privates Unternehmen, das sich auf das Design und die Produktion von Kopfsteinleuchten und Leuchtsteinen spezialisiert hat.



Technical features

- ◆ Almost even glowing surface (lack of the light spots).
- ◆ Bright and vivid colors.
- ◆ Extremely long working time.
- ◆ High mechanical endurance.
- ◆ No heating of the working surface.
- ◆ Low power consumption (0.24 - 1.68 W for 1 item).
- ◆ Safe voltage (12 Volts).
- ◆ Complete water and dust resistance.

Technische Eigenschaften:

- ◆ Eine beinahe ebene Leuchtoberfläche;
- ◆ Helle und lebendige Farben;
- ◆ Extreme lange Leuchtdauer;
- ◆ Hohe mechanische Lebensdauer;
- ◆ Kein Erhitzen der Arbeitsoberfläche;
- ◆ Geringer Stromverbrauch (0,24 - 1,66 W pro Stück);
- ◆ Sichere Spannung (12 Volt);
- ◆ Komplett wasser- und staubabweisend.



Paving lights as a valuable addition of the lighting concept / Kopfsteinleuchten als wertvolle Ergänzung zum Beleuchtungskonzept Pflastersteine als wertvolle Ergänzung zu Beleuchtungskonzepten

◆ Bright and vivid colors, complete water and dust protection plus easiness of installation — are the key features which could help the architect to fulfill his most extraordinary concepts in lighting design. A colored atmosphere created with Luxona glowing stones surrounds you with the feeling of cosiness and comfort in variable applications — from the spot lighting of the garden plants or swimming pool to creating lighting effects for outdoor parties. According to the technical data-sheets provided by the manufacture of LED modules, the life time of one is about 80.000 hours - i.e. roughly about 10 years of continuous operation. However, we have to keep in mind, that this parameter significantly depends of the ambient temperature, and can decrease if the heating exceeds 50 °C (122°F) - for example during the operation in hot climates under direct sun rays.

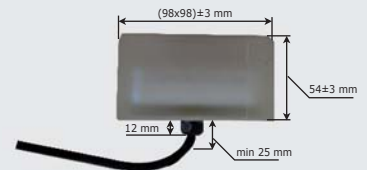
◆ Helle und lebendige Farben, komplett wasser- und staubabweisend und eine einfache Installation — das sind die Haupteigenschaften, welche einem Architekten dabei helfen können, in höchstem Maße außergewöhnliche Beleuchtungskonzepte zu kreieren. Eine durch Luxona Leuchtsteine hervorgerufene farbenfrohe Atmosphäre umgibt einen mit dem Gefühl von Wohnlichkeit und Komfort in den verschiedensten Anwendungsbereichen — dem punktgenauen Beleuchten von Gartenpflanzen oder dem Swimmingpool, um Lichteffekte für Gartenpartys zu erzeugen. Laut dem technischen Informationsblatt, das vom Hersteller der LED-Module zur Verfügung gestellt wird, beträgt die Lebensdauer von einem Modul ungefähr 80.000 Stunden — gleichbedeutend mit einem ununterbrochenen Betrieb von in etwa 10 Jahren. Jedoch muss berücksichtigt werden, dass dieser Wert signifikant von der Umgebungstemperatur abhängig ist und sich verringert, falls die Betriebstemperatur 50°C (122°F) übersteigt — z.B. in heißem Klima bei direkter Sonneneinstrahlung.





Type Alfa / Typ Alfa



General features of the serie /
Allgemeine Daten der Serie:
Voltage / Volt = 12V DC;
Size / Größe: 98x98x54 (±3) mm;
Weight netto / Nettogewicht: 0.60 kg;
Cable / Kabel: 1500 mm;
IP68.



- 
 Type Alfa are the paving lights, produced in white, matt color with rugged glowing surface, which can be applied as build-in lighting components of glazed Dutch tile.
- 
 Typ Alfa sind jene Paving Lights, die in weiß oder matter Farbe mit rauher Oberfläche hergestellt werden, und die als eingebaute Beleuchtungskomponenten für glasierte Fliesen verwendet werden können.

| Article | Description | CE | EMC | IP68 |
|----------|--|----|-----|------|
| LX217322 | Alfa white, matt, 12V, 0.84W, 98x98x54 (±3) mm, IP68, cable 1500 mm | | | |
| LX217324 | Alfa red, matt, 12V, 0.84W, 98x98x54 (±3) mm, IP68, cable 1500 mm | | | |
| LX217325 | Alfa green, matt, 12V, 0.84W, 98x98x54 (±3) mm, IP68, cable 1500 mm | | | |
| LX217326 | Alfa blue, matt, 12V, 0.84W, 98x98x54 (±3) mm, IP68, cable 1500 mm | | | |
| LX217327 | Alfa melon, matt, 12V, 0.84W, 98x98x54 (±3) mm, IP68, cable 1500 mm | | | |
| LX217328 | Alfa orange, matt, 12V, 0.84W, 98x98x54 (±3) mm, IP68, cable 1500 mm | | | |
| LX217329 | Alfa RGB, matt, 12V, 2.04W, 98x98x54 (±3) mm, IP68, cable 1500 mm | | | |



Accessories / Zubehör

Installation accessories, see p. 15



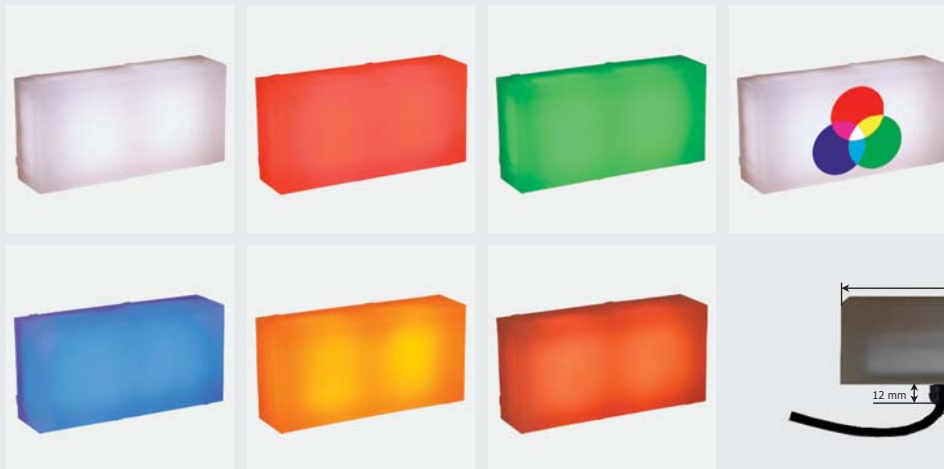
Decorative frames, see p. 16



Cable connectors IP68, see p. 17



Type Beta / Typ Beta



General features of the serie /
Allgemeine Daten der Serie:
Voltage / Volt = 12V DC;
Size / Größe: 198x98x54 (±3) mm;
Weight netto / Nettogewicht: 0.98 kg;
Cable / Kabel: 1500 mm;
IP68.



Type Beta are the paving lights, produced in white, matt color with rugged glowing surface, which can be applied as build-in lighting components of glazed Dutch tile.

Typ Beta sind jene Paving Lights, die in weiß oder matter Farbe mit rauher Oberfläche hergestellt werden, und die als eingebaute Beleuchtungskomponenten für glasierte Fliesen verwendet werden können.

| Article | Description | CE | EMC | IP68 |
|----------|---|----|-----|------|
| LX218322 | Beta white, matt, 12V, 1.68W, 198x98x54 (±3) mm, IP68, cable 1500 mm | | | |
| LX218324 | Beta red, matt, 12V, 1.68W, 198x98x54 (±3) mm, IP68, cable 1500 mm | | | |
| LX218325 | Beta green, matt, 12V, 1.68W, 198x98x54 (±3) mm, IP68, cable 1500 mm | | | |
| LX218326 | Beta blue, matt, 12V, 1.68W, 198x98x54 (±3) mm, IP68, cable 1500 mm | | | |
| LX218327 | Beta melon, matt, 12V, 1.68W, 198x98x54 (±3) mm, IP68, cable 1500 mm | | | |
| LX218328 | Beta orange, matt, 12V, 1.68W, 198x98x54 (±3) mm, IP68, cable 1500 mm | | | |
| LX218329 | Beta RGB, matt, 12V, 4.08W, 198x98x54 (±3) mm, IP68, cable 1500 mm | | | |



Accessories / Zubehör

Installation accessories, see p. 15



Decorative frames, see p. 16

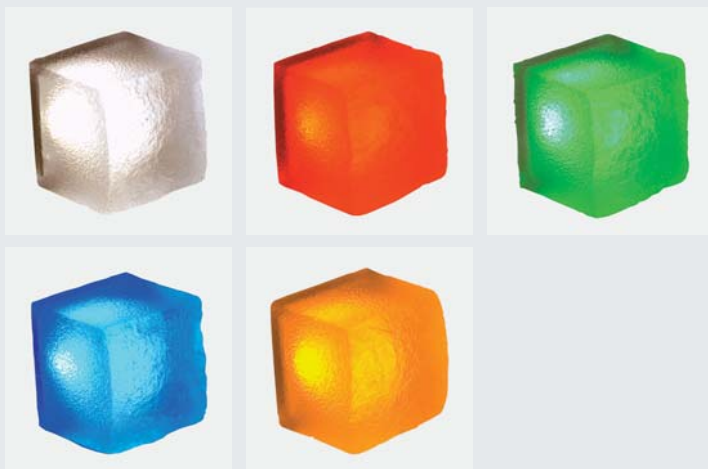


Cable connectors IP68, see p. 17

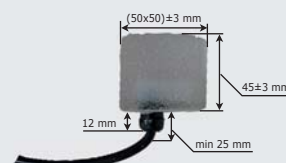




Type Natur / Typ Natur

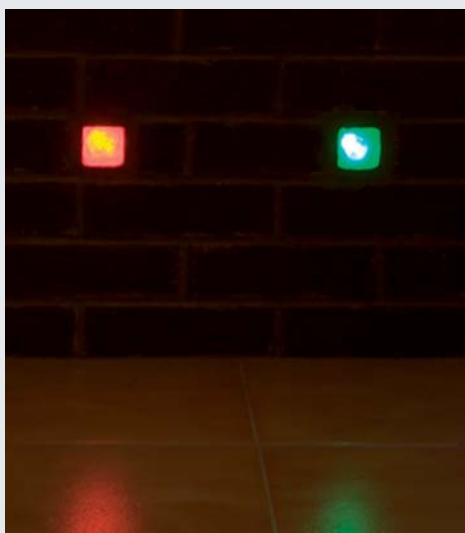
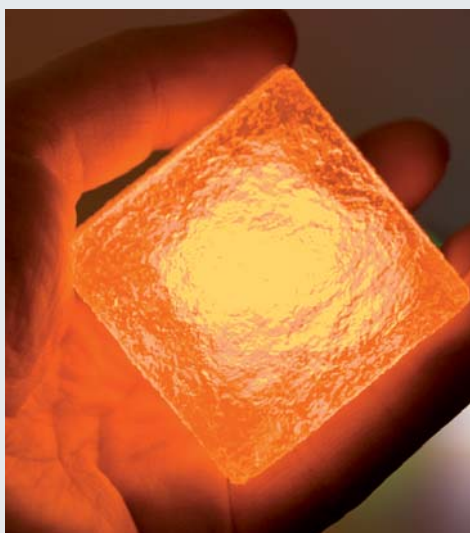


General features of the serie /
Allgemeine Daten der Serie:
Voltage / Volt = 12V DC;
Size / Größe: 50x50x45 (±3) mm;
Weight netto / Nettogewicht: 0.22 kg;
Cable / Kabel: 1500 mm;
IP68.



- Type Natur — are the glowing stones with surface imitating natural stone. These are manufactured in slightly frosted type and can be applied as decorative lights and colored accents (indoors and outdoors).
- Typ Natur sind die leuchtenden Steine, deren matte Oberfläche natürlichem Stein nachempfunden sind. Sie können als Dekorationsbeleuchtung und farblichen Akzente (innen und außen) eingesetzt werden.

| Article | Description | CE | EMC | IP68 |
|----------|---|----|-----|------|
| LX115212 | Natur white, frosted, 12V, 0.24W, 50x50x45 (±3) mm, IP68, cable 1500 mm | | | |
| LX115214 | Natur red, frosted, 12V, 0.48W, 50x50x45 (±3) mm, IP68, cable 1500 mm | | | |
| LX115215 | Natur green, frosted, 12V, 0.24W, 50x50x45 (±3) mm, IP68, cable 1500 mm | | | |
| LX115216 | Natur blue, frosted, 12V, 0.24W, 50x50x45 (±3) mm, IP68, cable 1500 mm | | | |
| LX115217 | Natur melon, frosted, 12V, 0.48W, 50x50x45 (±3) mm, IP68, cable 1500 mm | | | |



Accessories / Zubehör

Installation accessories, see p. 15



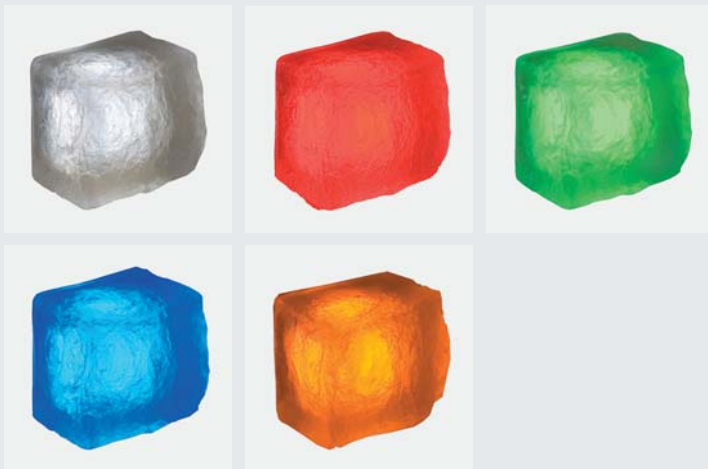
Decorative frames, see p. 16



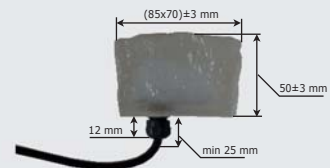
Cable connectors IP68, see p. 17



Type Glam / Typ Glam



General features of the serie /
Allgemeine Daten der Serie:
Voltage / Volt = 12V DC;
Size / Größe: 85x70x50 (±3) mm;
Weight netto / Nettogewicht: 0.34 kg;
Cable / Kabel: 1500 mm;
IP68.



Type Glam — are the glowing stones with surface imitating natural stone. These are manufactured in slightly frosted type and can be applied as decorative lights and colored accents (indoors and outdoors).



Typ Glam sind die leuchtenden Steine, deren matte Oberfläche natürlichem Stein nachempfunden sind. Sie können als Dekorationsbeleuchtung und farblichen Akzente (innen und außen) eingesetzt werden.

| Article | Description | CE | EMC | IP68 |
|----------|--|----|-----|------|
| LX116212 | Glam white, frosted, 12V, 0.24W, 85x70x50 (±3) mm, IP68, cable 1500 mm | | | |
| LX116214 | Glam red, frosted, 12V, 0.48W, 85x70x50 (±3) mm, IP68, cable 1500 mm | | | |
| LX116215 | Glam green, frosted, 12V, 0.24W, 85x70x50 (±3) mm, IP68, cable 1500 mm | | | |
| LX116216 | Glam blue, frosted, 12V, 0.24W, 85x70x50 (±3) mm, IP68, cable 1500 mm | | | |
| LX116217 | Glam melon, frosted, 12V, 0.48W, 85x70x50 (±3) mm, IP68, cable 1500 mm | | | |

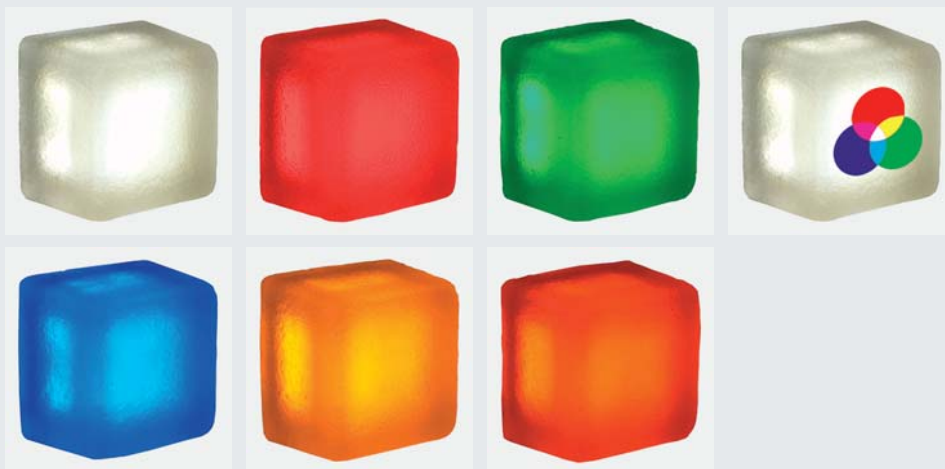


Cable connectors IP68, see p. 17

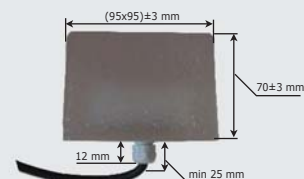




Serie Magnum frosted



General features of the serie /
Allgemeine Daten der Serie:
Voltage / Volt = 12V DC;
Size / Größe: 95x95x70 (±3) mm;
Weight netto / Nettogewicht: 0.82 kg;
Cable / Kabel: 1500 mm;
IP68.



- Type Magnum - are the glowing stones with surface imitating natural stone. These are manufactured in slightly frosted type and can be applied as decorative lights and colored accents (indoors and outdoors).
- Typ Magnum sind die leuchtenden Steine, deren matte Oberfläche natürlichem Stein nachempfunden sind. Sie können als Dekorationsbeleuchtung und farblichen Akzente (innen und außen) eingesetzt werden.

| Article | Description | CE | EMC | IP68 |
|----------|---|----|-----|------|
| LX114212 | Magnum white, frosted, 12V, 0.84W, 95x95x70 (±3) mm, IP68, cable 1500 mm | | | |
| LX114214 | Magnum red, frosted, 12V, 0.84W, 95x95x70 (±3) mm, IP68, cable 1500 mm | | | |
| LX114215 | Magnum green, frosted, 12V, 0.84W, 95x95x70 (±3) mm, IP68, cable 1500 mm | | | |
| LX114216 | Magnum blue, frosted, 12V, 0.84W, 95x95x70 (±3) mm, IP68, cable 1500 mm | | | |
| LX114217 | Magnum melon, frosted, 12V, 0.84W, 95x95x70 (±3) mm, IP68, cable 1500 mm | | | |
| LX114218 | Magnum orange, frosted, 12V, 0.84W, 95x95x70 (±3) mm, IP68, cable 1500 mm | | | |
| LX114219 | Magnum RGB, frosted, 12V, 2.04W, 95x95x70 (±3) mm, IP68, cable 1500 mm | | | |



Accessories / Zubehör

Installation accessories, see p. 15

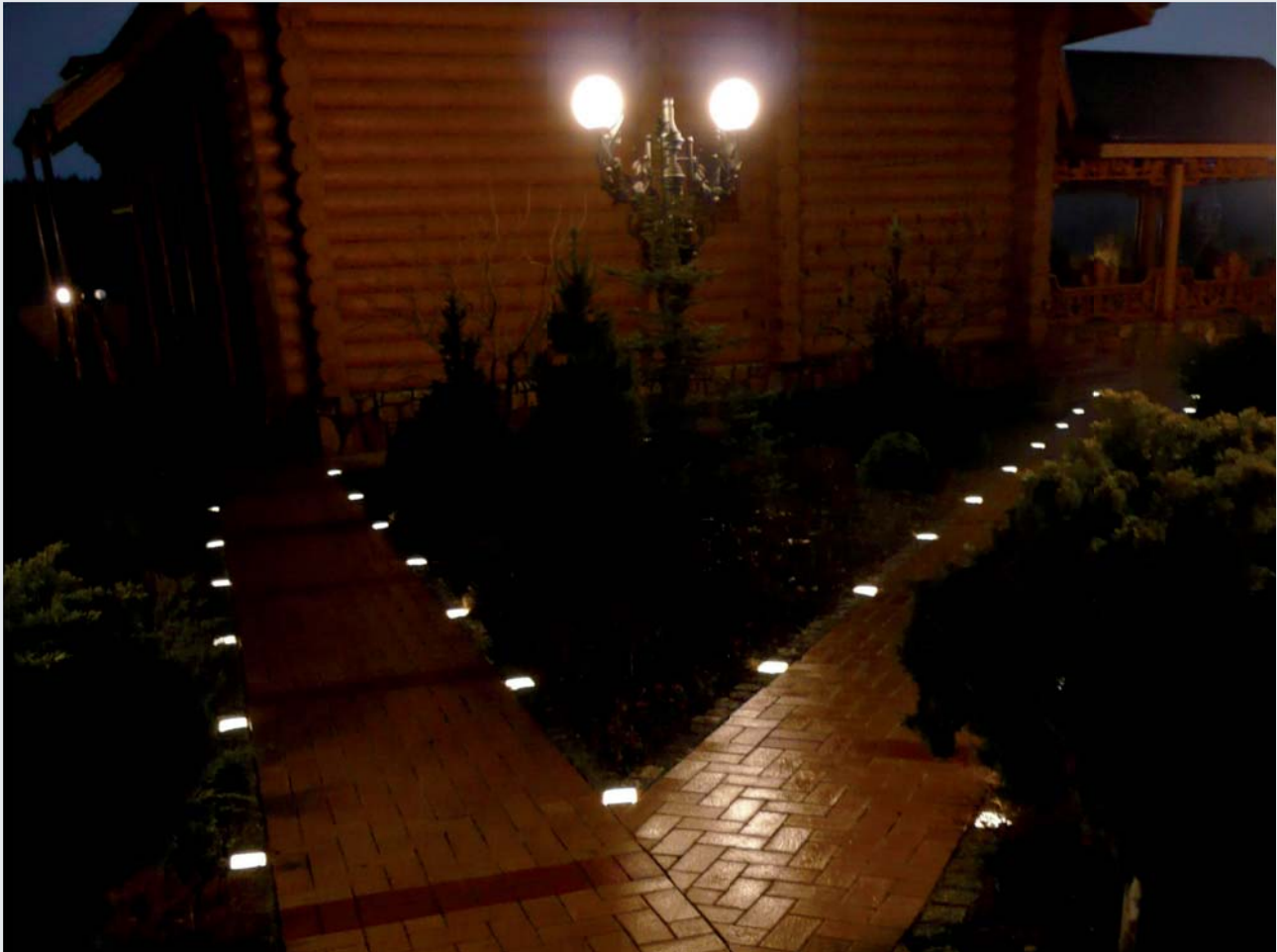


Decorative frames, see p. 16



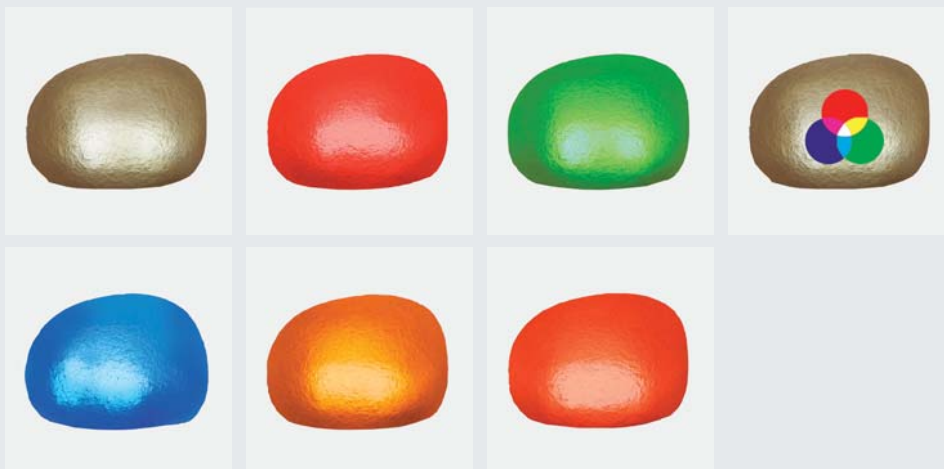
Cable connectors IP68, see p. 17



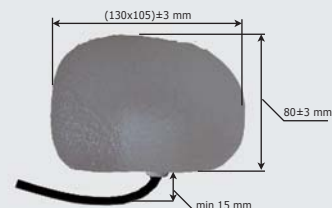




Type Boulder-1 / Typ Boulder-1



General features of the serie /
Allgemeine Daten der Serie:
Voltage / Volt = 12V DC;
Size / Größe: 130x105x80 (±3) mm;
Weight netto / Nettogewicht: 0.82 kg;
Cable / Kabel: 1500 mm;
IP68.



Type Boulder-1 is a new type of glowing stone, featured by natural, rounded shape with rough surface. Manufactured in slightly frosted type and can be applied as a decorative lighting component or as colored accent in landscape lighting. The glowing stones of such a type may be easily installed as individual lights in variety of outdoor and indoor lighting applications.

Typ Boulder-1 ist eine neue Art von Leuchtstein mit einer rundlichen Form und rauher, matter Oberfläche. Sie können als dekorative Beleuchtungskomponente oder als farblicher Akzent in der Landschaftsbeleuchtung eingesetzt werden. Diese Art von Leuchtstein kann sehr einfach als individuelle Lichtquelle in verschiedenen Innen- und Außeninstallationen verwendet werden.

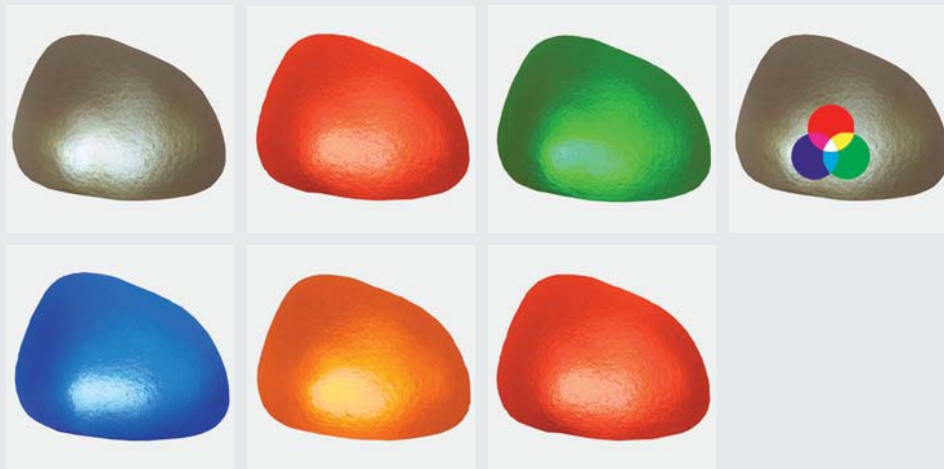
| Article | Description | CE | EMC | IP68 |
|----------|--|----|-----|------|
| LX319222 | Boulder-1, white, frosted, 12V, 0.84W, 130x105x80 (±3) mm, IP68 | | | |
| LX319224 | Boulder-1, red, frosted, 12V, 0.84W, 130x105x80 (±3) mm, IP68 | | | |
| LX319225 | Boulder-1, green, frosted, 12V, 0.84W, 130x105x80 (±3) mm, IP68 | | | |
| LX319226 | Boulder-1, blue, frosted, 12V, 0.84W, 130x105x80 (±3) mm, IP68 | | | |
| LX319227 | Boulder-1, melon, frosted, 12V, 0.84W, 130x105x80 (±3) mm, IP68 | | | |
| LX319228 | Boulder-1, orange, frosted, 12V, 0.84W, 130x105x80 (±3) mm, IP68 | | | |
| LX319229 | Boulder-1, RGB, frosted, 12V, 2.04W, 130x105x80 (±3) mm, IP68 | | | |



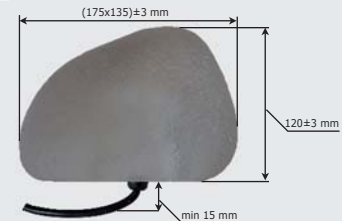
Cable connectors IP68, see p. 17



Type Boulder-2 / Typ Boulder-2



General features of the serie /
Allgemeine Daten der Serie:
Voltage / Volt = 12V DC;
Size / Größe: 175x135x120 (±3) mm;
Weight netto / Nettogewicht: 1.62 kg;
Cable / Kabel: 1500 mm;
IP68.



Type Boulder-2 is a new type of glowing stone, featured by natural, rounded shape with rough surface. Manufactured in slightly frosted type and can be applied as a decorative lighting component or as colored accent in landscape lighting. The glowing stones of such a type may be easily installed as individual lights in variety of outdoor and indoor lighting applications.

Typ Boulder-2 ist eine neue Art von Leuchtstein mit einer rundlichen Form und rauher, matter Oberfläche. Sie können als dekorative Beleuchtungskomponente oder als farblicher Akzent in der Landschaftsbeleuchtung eingesetzt werden. Diese Art von Leuchtstein kann sehr einfach als individuelle Lichtquelle in verschiedenen Innen- und Außeninstallationen verwendet werden.

| Article | Description | CE | EMC | IP68 |
|----------|---|----|-----|------|
| LX320222 | Boulder-2, white, frosted, 12V, 0.84W, 175x135x120 (±3) mm, IP68 | | | |
| LX320224 | Boulder-2, red, frosted, 12V, 0.84W, 175x135x120 (±3) mm, IP68 | | | |
| LX320225 | Boulder-2, green, frosted, 12V, 0.84W, 175x135x120 (±3) mm, IP68 | | | |
| LX320226 | Boulder-2, blue, frosted, 12V, 0.84W, 175x135x120 (±3) mm, IP68 | | | |
| LX320227 | Boulder-2, melon, frosted, 12V, 0.84W, 175x135x120 (±3) mm, IP68 | | | |
| LX320228 | Boulder-2, orange, frosted, 12V, 0.84W, 175x135x120 (±3) mm, IP68 | | | |
| LX320229 | Boulder-2, RGB, frosted, 12V, 2.04W, 175x135x120 (±3) mm, IP68 | | | |



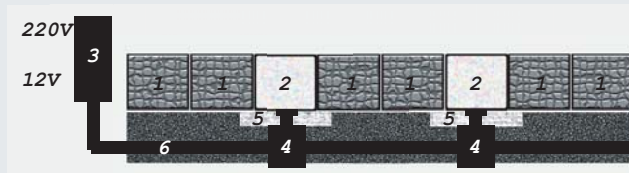
Cable connectors IP68, see p. 17





Installation

Installation drawing / Installationsplan



1. Pavement / Gehweg
2. Luxona paving lights / Luxona Leuchtsteine
3. Converter 12V in Box IP67-68 / Umwandler 12V in Box IP67-68
4. Connection Box IP 68 / Verbindungsbox IP 68
5. Sand or gravel layer / Sand- oder Schottererschicht
6. Low voltage cable covered in plastic or metal tube (crimped sleeve) / Kabel mit geringer Spannung ummantelt mit Plastik- oder Metallrohr (Kabelschuh)



All our products are IP68 protected and can operate under the water. In the same way our products can be installed into the bottom or alls of the swimming pool or water fountain. However, you have to keep in mind, that despite the glowing stones being water proof, all wire connections and power converters have to be placed into safety boxes (IP67 or IP68).



All unser Produkte sind IP68 geschützt und funktionieren unter Wasser. Daher können unsere Produkte auch in Wände von Schwimmbecken oder Springbrunnen eingebaut werden. Achten Sie aber darauf, dass trotz der Wasserdichte der Leuchtsteine alle Kabelverbindungen und Stromwandler in Sicherheitsboxen (IP67 oder IP 68) untergebracht sein müssen.

4 ways of installation / 4 Installationsmöglichkeiten



1 Direct installation

The same way as regular paving stones, our lights can be installed directly into the pavement. In this case you don't need any additional components with the exception of connection boxes (IP68) and crimped sleeves to protect the cable. In some cases, when it's necessary to protect the fixtures against vandals you can secure the gaps with cement or plaster.

1 Direkte Installation

Genau wie normale Pflastersteine können unsere Leuchtsteine direkt in den Gehweg installiert werden. In diesem Fall bedarf es keiner zusätzlichen Hilfsmittel außer den Verbindungsboxen (IP68) und Kabelschuhen, um die Kabel zu schützen. Um die Installationsobjekte vor Vandalismus zu schützen, kann man die Zwischenräume mit Zement oder Gips füllen.



2 Installtube (Only for Alfa and Magnum)

Installation using Installtube component has it's advantages. It allows to connect the wires using T-, I- and H- shaped connectors (shown on page 17) directly at the bottom part of device. You can fix the light into the Installtube with montage silicone and then fill the gaps with sand or gravel. In case of maintenance (for example for reconnection), you can remove the silicone layers with a screwdriver and take out the fixture.

2 Installation Röhre (nur für Alfa und Magnum Modelle)

Das Verwenden des Installtube hat seine Vorteile. Es ermöglicht, die Kabel mit T-, I- und H-förmigen Verbindungsstücken (siehe Seite 17) direkt am Boden des Bauelements zu verbinden. Die Leuchte wird mit Montagesilikon im Installtube fixiert und die Zwischenräume können mit Sand oder Schotter gefüllt werden. Für Wartungsarbeiten (zB Wiederverbindung) kann das Silikon mit einem Schraubenzieher entfernt und das Bauteil herausgenommen werden.



3 ProBox

Installation box ProBox allows you to install the fixtures into a wooden floor, brick wall or plasterboard. As it might be necessary to put the fixture into different depths, the ProBox allows you to adjust the installation depth of the fixture (+ 20 mm) for each particular case. The rinciple of installation is clear from the drawing shown on left.

3 ProBox

Die Installationsbox ProBox ermöglicht es Ihnen, die Bauteile in Holzböden, Ziegelmauern oder in Gipskartonwänden zu installieren. Da es nötig sein kann, die Bauelemente verschieden tief einzubauen, kann mittels roBox die gewünschte Installationstiefe (+ 20 mm) individuell angepasst werden. Das Prinzip der Installation wird in der Zeichnung klar dargestellt.



4 EasyGo

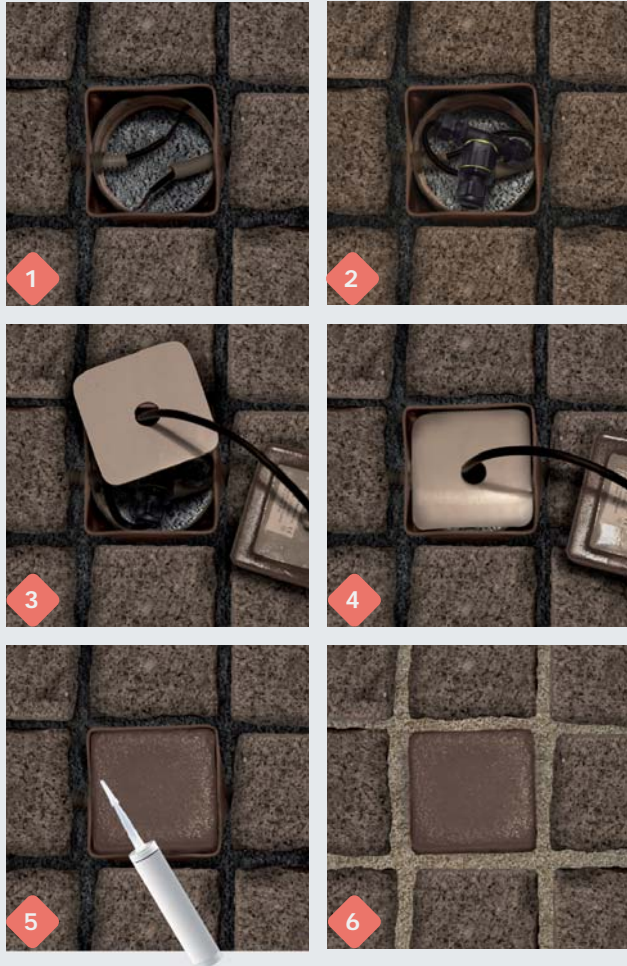
Two types of our products — glowing stones Boulder-1 (page 11) and Boulder-2 (page 12) may be installed directly onto a surface such as sand, gravel or decorative crust surface and doesn't require any specific components, with the exception of connection boxes (IP68).

4 EasyGo

Zwei unserer Produkte — Leuchtstein Boulder-1 (Seite 11) und Boulder-2 (Seite 12) kann man direkt in Oberflächen wie Sand, Schotter oder Dekorationsrinde installieren und sie benötigen keine zusätzlichen Komponenten außer die Verbindungsboxen (IP68). Die Einfachheit der Installation ermöglicht es, diese Leuchtsteine als mobile oder temporäre Partydekoration zu verwenden.

Installation procedure/ Installationsvorgang

Instaltube



- 1 Set the Instaltube into the ground and leave enough length of supply cables on the bottom. / Installieren Sie die Röhre im Untergrund und lassen Sie genug Versorgungskabel am Boden frei.
- 2 Connect the cables through the T-connector (optional) and push them to the bottom of the Instaltube. / Verbinden Sie die Kabel mit den T-Verbindungsstücken (optional) und drücken Sie sie auf den Grund der Installationsröhre.
- 3 Pull the fixture's cable through the hole of the square plate and connect it to the T-connector. / Ziehen Sie das Kabel des Bauelements durch das Loch in der Bodenplatte und verbinden Sie es mit dem T-Verbindungsstück.
- 4 Put the square plate in it's place within the Instaltube. / Befestigen Sie die eckige Platte in dem dafür vorgesehenen Platz in der Installationsröhre.
- 5 Install the fixture into the Instaltube and secure it with technical silicone. / Installieren Sie das Bauelement in die Röhre und befestigen Sie es mit Bausilikon.
- 6 Fill the gaps with sand or gravel. / Füllen Sie die Zwischenräume mit Sand oder Schotter.

Probox



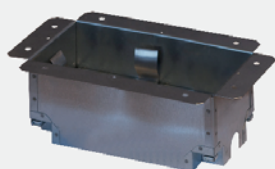
- 1 Install the Probox on to the surface (wooden panel, plaster wall, floor or brick) and fix it with screws (not supplied) on the front side. / Installieren Sie die Probox in der gewünschten Oberfläche (Holzfußbodenplatte, Gipswand, Boden oder Ziegelstein) und befestigen Sie sie mit Schrauben (nicht in der Lieferung enthalten) auf der Vorderseite.
- 2 Using the glue-gun apply some melted plastic on to the rear side of the fixture (as an alternative you can use double sided adhesive tape, glue or technical silicone). / Bringen Sie mit einer Heißklebepistole etwas geschmolzenes Plastik auf der Rückseite der Vorrichtung an (alternativ dazu können Sie auch doppelseitiges Klebeband, Klebstoff oder Silikon verwenden)
- 3 While the applied plastic is still soft, put the fixture into the frame and push it until it sits flat on the bottom. / Schieben Sie, solange das Plastik noch weich ist, die Vorrichtung in den Rahmen und drücken Sie sie solange, bis Sie fest im Rahmen steckt.
- 4 If necessary check the fixture's position and wait until the soft plastic becomes solid. / Falls notwendig kontrollieren Sie die Position der Vorrichtung und warten Sie, bis das Plastik hart geworden ist.
- 5 Adjust the installation depth by the gradual rotation of each of 4 corner screws (use a slim screwdriver). The fixture's surface may be set up to maximum 20 mm over the wall surface level. / Mit Hilfe der vier Eckschrauben können Sie die Tiefe der Vorrichtung selbst bestimmen (benutzen Sie einen schmalen Schraubenzieher). Die Vorrichtung kann maximal 20 mm aus der gewählten Oberfläche herausstehen.
- 6 (Optionally) Set and fix a front decorative frame (with adhesive tape or technical silicone). / (Optional) Bringen Sie einen dekorativen Rahmen an (mit Klebeband oder Silikon)



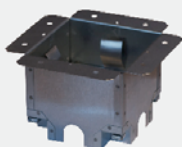
Installation accessories

Indoor installation — Probox

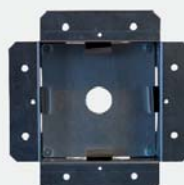
For indoor installation you can use Probox to install the fixtures into a wooden floor, brick wall or plasterboard. Probox allows you to adjust the installation depth of the fixture (± 20 mm) for each particular case.



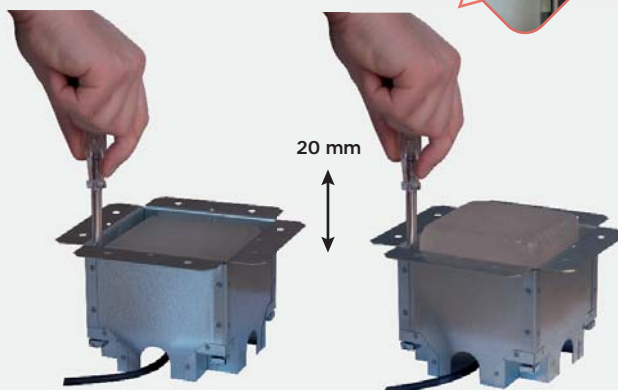
art.LX932181
for Beta



art.LX932141
for Magnum



art.LX932171
for Alfa



Outdoor installation — Instaltube

Instaltube for Alfa & Magnum allows to connect the wires using T-, I- and H- shaped connectors (shown on page 17) directly at the bottom part of device.



LX931171-for Alfa
LX931141-for Magnum

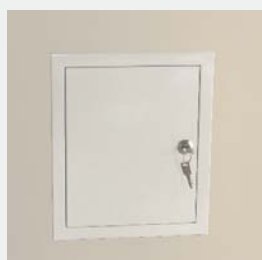


| Article | Description |
|----------|--|
| LX932171 | Probox for Alfa, 175x175x79 mm |
| LX932181 | Probox for Beta, 27x175x79 mm |
| LX932141 | Probox for Magnum, 175x175x95 mm |
| LX932151 | Probox for Natur, 127x127x70 mm |
| LX931171 | Instaltube for Alfa, 108x108x160 mm, PVC |
| LX931141 | Instaltube for Magnum, 108x108x160 mm, PVC |

Accessories

Junction lockers

art. LX934012
Junction locker 1, with key, white, zinc-coated sheet metal



art. LX934022
Junction locker 2, with key, white, zinc-coated sheet metal



art. LX934032
Junction locker 3, with key, white, zinc-coated sheet metal

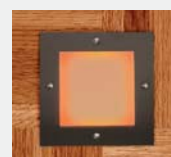


Decorative frames

Proframe-1



Proframe-2



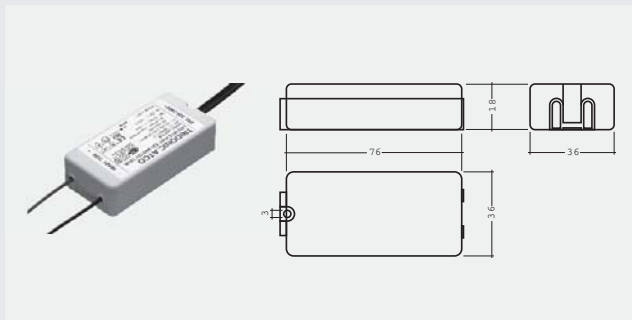
| Article | Description |
|----------|--|
| LX934012 | Junction locker 1, with key, white, zinc-coated sheet metal, 24.5x19.5 x6.5 cm/ 29x24x7 cm |
| LX934022 | Junction locker 2, with magnet, white, zinc-coated sheet metal, 24.5x19.5 x6.5 cm/29x24x7 cm |
| LX934032 | Junction locker 3, with magnet, white, zinc-coated sheet metal, 24.5x19.5 x6.5 cm/29x24x7 cm |
| LX933171 | Proframe-1 for Alfa, 132x132x20 mm |
| LX933181 | Proframe-1 for Beta, 232x132x20 mm |
| LX933141 | Proframe-1 for Magnum, 129x129x20 mm |
| LX933151 | Proframe-1 for Natur, 84x84x20 mm |
| LX933172 | Proframe-2 for Alfa, 125x125 mm |
| LX933182 | Proframe-2 for Beta, 225x125 mm |
| LX933142 | Proframe-2 for Magnum, 122x122 mm |
| LX933152 | Proframe-2 for Natur, 52x52 mm |



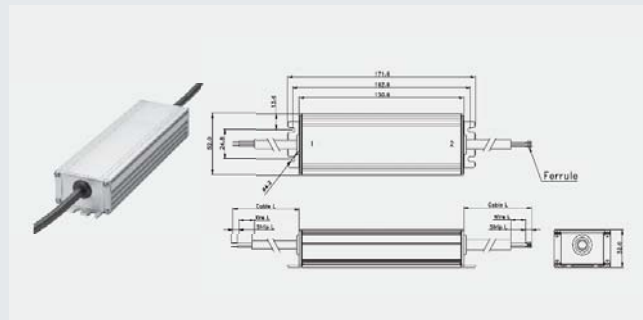
Connection accessories

Voltage converters / Spannungsumwandler

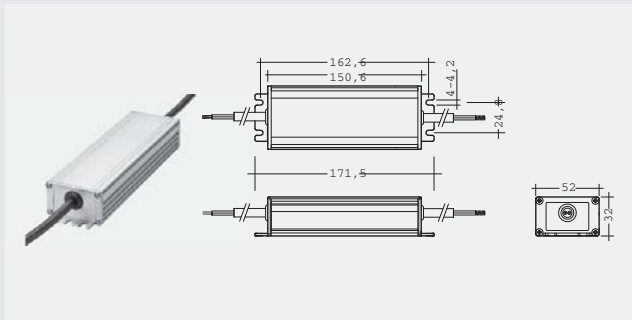
art.LX811010 Compact constant voltage converter for paving lights, 220-240V / 12V, 10W, IP20



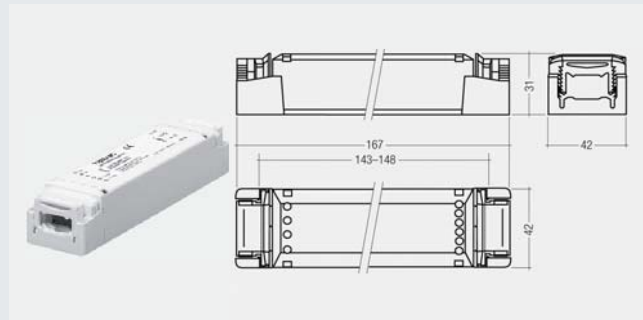
art.LX811035 Constant voltage converter for paving lights, 120-240V / 12V, 35W, IP67



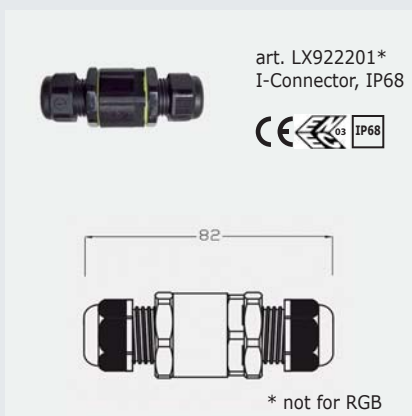
art.LX811100 Constant voltage converter for paving lights, 220-240V / 12V, 100W, IP67



art.LX821001 The 3 channel sequencer enables the dynamic colour change of RGB paving lights



Cable connectors IP68



| Article | Description |
|----------|--|
| LX811010 | LED converter, 1-10W, 220-240V/12V, 76x36x18 mm, IP20 |
| LX811035 | LED converter, 35W, 1120-240V / 2V, 172x52x32mm, IP67 |
| LX811100 | LED converter 10-100W, 120-240 / 12 V, 237x60x34mm, IP67 |
| LX821001 | Sequencer, 12-24V, 3 channel x 2A, 100KΩ/1-10V |
| LX922201 | I-Conector, IP68 5bar, 2-poles terminal block, for cable: . 5Ø÷13.5 mm, dimension: . 30 mm, L 82 mm |
| LX922302 | T-Connector, IP68, 2bar, 2-poles terminal block, for cable: . 5Ø÷13.5 mm, dimension: . 30 mm, 73x92 mm |
| LX922403 | H-Connector, IP68, 5MT, for cable . 5Ø÷14 mm, dimension: 65x108 mm |

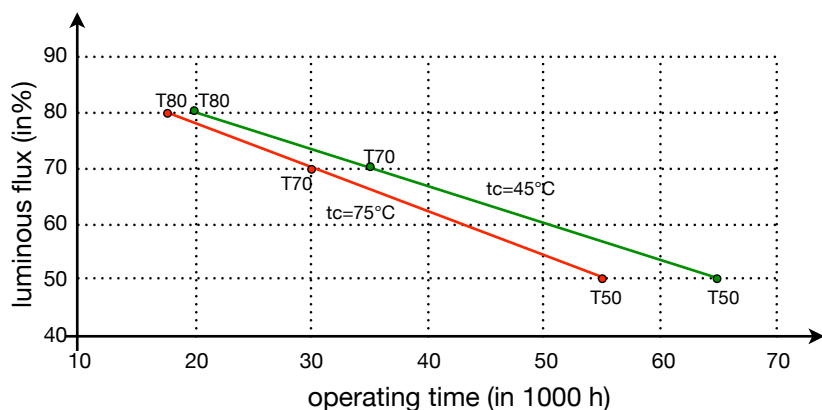
General Product's Data Sheet

1. Expected lifetime.

All values mentioned in the Technical Datasheets of the individual products are measured at an ambient temperature of 25 degrees Celsius. According to the information provided by the manufacturer, the lifetime of the LED modules is about 60.000 hours (at ambient temperature $t_a=25^\circ$) - i.e. roughly about 7 years of continuous operation. That is about 15 years when the lights are on within a period of 12 hours a day. However, we have to keep in mind, that this parameter significantly depends of the ambient temperature, and can decrease if the heating exceeds 50°C (122°F) - for example during operation in hot climates in direct sunlight.

If lumen maintenance is used to define the lifetime of an LED module, the figures relate to the number of hours of operation after which the luminous flux of the LED module is 80% (T80), 70% (T70) or 50% (T50) of the rated value. Lumen maintenance is determined mainly by the temperature at the "tc point" (reference point) on the LED module measured under normal conditions of use.

The following diagrams enable the lumen maintenance and associated operating time to be determined for different tc temperatures. Intermediate values can be found with sufficient accuracy by interpolating between the reference curves.



| tc, C° | luminous flux, % | expected lumen maintenance, h |
|--------|------------------|-------------------------------|
| 45 | 80 | 22'000 (T80) |
| | 70 | 35'000 (T70) |
| | 50 | 65'000 (T50) |
| 75 | 80 | 19'000 (T80) |
| | 70 | 30'000 (T70) |
| | 50 | 55'000 (T50) |

2. Water and dust resistance: IP68.

Note: During operation under water (in fountain, lake, pond, etc.) on the surface of the products lime scale layers may occur. This can not be considered as a malfunction, and depends on the chemical composition of the water. To remove the lime scale you can use an appropriate cleaning agent, the most common of one is a vinegar solution.

3. Voltage: 12 Volt DC.

In low voltage systems, the mains voltage is reduced through a converters to 12 Volt DC, which is a voltage incapable of giving a fatal shock and therefore allows the use of flexible cables around any sensitive area, rather than the fixed cabling required for mains voltage systems.

4. Barcol Hardness: 35-40.

5. Chemical resistance.

Our products are formulated to exhibit good hydrolytic stability and are resistant to neutral and acidic salts and weak non-oxidizing acids.

Chemical Resistance Guide - long immersion time.

| Chemical Environment | Conc. % | C° |
|-----------------------------------|---------|----|
| Water, Distilled | ALL | 40 |
| Water, Sea | ALL | 40 |
| Sodium Hydroxide (caustic soda) | | NR |
| Crude Oil, Sour or Sweet | 100 | 40 |
| Detergents, Organic | 100 | - |
| Detergents, Sulfonated | ALL | - |
| Kerosene | 100 | - |
| Ethyl Acrylate, Ethyl Acrylate | 100 | NR |
| Ethyl Alcohol (Ethanol) | 01 - 50 | 25 |
| Ethyl Alcohol (Ethanol) | 100 | NR |
| Motor Oil | 100 | 40 |
| Ethyl Benzene/Benzene Blends | 100 | NR |
| Eucalyptus Oil | 100 | - |
| FattyAcids | ALL | 25 |
| Fuel Oil | 100 | 25 |
| Gasoline Regular Leaded, Unlesded | 100 | 25 |
| Gasoline, Alcohol Containing | 100 | - |
| Glycerine | 100 | - |

“NR” - Not recommended

“-” - No limitations

“40” - maximum recommended temperature

ASTM C 581 has been developed to assist in determining if there is deterioration of a thermo set material when it is immersed in a corrosive medium. Long-term exposure and experience supports the data that has been obtained from laboratory tests carried out in accordance with ASTM C581.

The content of this Chemical Resistance Guide provides general guidelines intended to assist customers in determining whether the products are suitable for their applications. All products are intended for sale to knowledgeable industrial and commercial customers. Customers are required to inspect and test products before use and satisfy themselves as to the suitability for their specific end-use. These general guidelines are not intended to be a substitute for customer testing.

6. Environment resistance:

In general products showing sufficient endurance to atmospheric precipitation, direct sunlight and cold/hot temperatures. Nevertheless to ensure the long lasting and reliable operation, the product's body temperature should not exceed 65°C.

7. Mechanical endurance: Static load test up to 2000 kg.

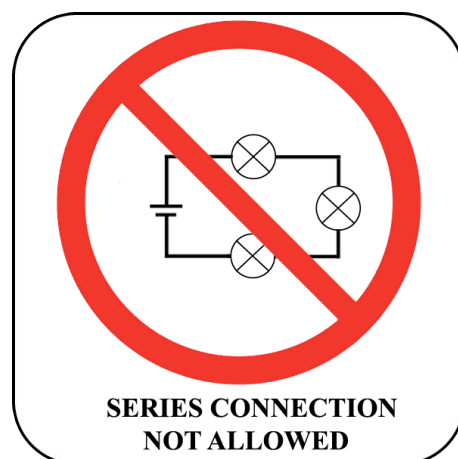
8. Wiring: Products are fitted with cable type H05RN-F suitable for outdoor installation.

9. **Power consumption:** Thanks to the low power consumption of the products an additional advantage achieved by means of a smaller amount of voltage converters required to supply the units.

The table below showing **an example** of how many particular products that can be connected to one 10, 35 or 100 W converter.

| Model | W/unit | Units per one 10W converter | Units per one 35W converter | Units per one 100W converter |
|--------------|-----------|-----------------------------|-----------------------------|------------------------------|
| Alfa | 0.84 | 11 | 41 | 119 |
| Beta | 1.68 | 5 | 20 | 59 |
| Magnum | 0.84 | 11 | 41 | 119 |
| Glam | 0.24-0.48 | 37 - 20 | 145 - 72 | 416 - 208 |
| Natur | 0.24-0.48 | 37 - 20 | 145 - 72 | 416 - 208 |
| Boulder 1, 2 | 0.84 | 11 | 41 | 119 |

10. Installation have to be performed taking into consideration the following restrictions:



11. **Changes:** This General Product's Data Sheet is subject to change without notice in an effort to provide the most up-to- date data.